

11575380

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PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	JUL 28	CA/CAPLUS patent coverage enhanced
NEWS	3	JUL 28	EPFULL enhanced with additional legal status information from the epline Register
NEWS	4	JUL 28	IFICDB, IFIPAT, and IFIUDB reloaded with enhancements
NEWS	5	JUL 28	STN Viewer performance improved
NEWS	6	AUG 01	INPADOCDB and INPAFAMDB coverage enhanced
NEWS	7	AUG 13	CA/CAPLUS enhanced with printed Chemical Abstracts page images from 1967-1998
NEWS	8	AUG 15	CAOLD to be discontinued on December 31, 2008
NEWS	9	AUG 15	CAPLUS currency for Korean patents enhanced
NEWS	10	AUG 27	CAS definition of basic patents expanded to ensure comprehensive access to substance and sequence information
NEWS	11	SEP 18	Support for STN Express, Versions 6.01 and earlier, to be discontinued
NEWS	12	SEP 25	CA/CAPLUS current-awareness alert options enhanced to accommodate supplemental CAS indexing of exemplified prophetic substances
NEWS	13	SEP 26	WPIDS, WPINDEX, and WPIX coverage of Chinese and Korean patents enhanced
NEWS	14	SEP 29	IFICLS enhanced with new super search field
NEWS	15	SEP 29	EMBASE and EMBAL enhanced with new search and display fields
NEWS	16	SEP 30	CAS patent coverage enhanced to include exemplified prophetic substances identified in new Japanese-language patents
NEWS	17	OCT 07	EPFULL enhanced with full implementation of EPC2000
NEWS	18	OCT 07	Multiple databases enhanced for more flexible patent number searching
NEWS	19	OCT 22	Current-awareness alert (SDI) setup and editing enhanced
NEWS	20	OCT 22	WPIDS, WPINDEX, and WPIX enhanced with Canadian PCT Applications
NEWS	21	OCT 24	CHEMLIST enhanced with intermediate list of pre-registered REACH substances

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,
AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

NEWS HOURS STN Operating Hours Plus Help Desk Availability

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NEWS LOGIN Welcome Banner and News Items
NEWS IPC8 For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 13:53:34 ON 19 NOV 2008

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Uploading

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Switching to the Registry File...

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=> FILE REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 13:53:46 ON 19 NOV 2008

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 18 NOV 2008 HIGHEST RN 1073232-10-6

DICTIONARY FILE UPDATES: 18 NOV 2008 HIGHEST RN 1073232-10-6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

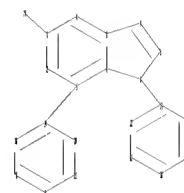
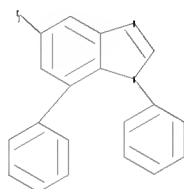
REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

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=>

Uploading C:\Program Files\Stnexp\Queries\10573380.str



chain nodes :

24

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

chain bonds :

1-19 3-24 6-13

ring bonds :

1-2 1-7 2-3 3-4 4-8 5-6 5-9 6-7 7-8 8-9 10-11 10-15 11-12 12-13 13-14
14-15 16-17 16-21 17-18 18-19 19-20 20-21

exact/norm bonds :

3-24 5-6 5-9 6-7 6-13 8-9

exact bonds :

1-19

normalized bonds :

1-2 1-7 2-3 3-4 4-8 7-8 10-11 10-15 11-12 12-13 13-14 14-15 16-17
16-21 17-18 18-19 19-20 20-21

isolated ring systems :

containing 1 : 10 : 16 :

G1:CF3,MeO,EtO,n-PrO,i-PrO,n-BuO,i-BuO,CN,NO2,X,Ak

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom 24:CLASS

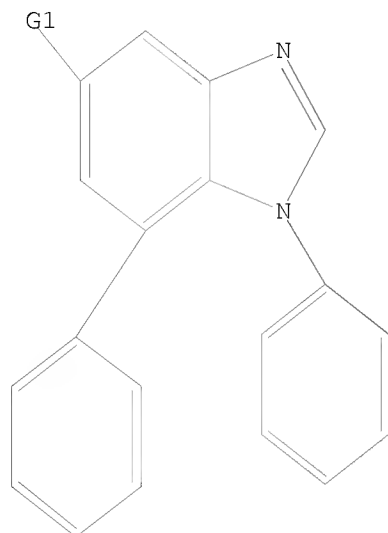
11575380

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



G1 CF₃, MeO, EtO, n-PrO, i-PrO, n-BuO, i-BuO, CN, NO₂, X, Ak

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 13:54:06 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 31 TO ITERATE

100.0% PROCESSED 31 ITERATIONS

5 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 286 TO 954

PROJECTED ANSWERS: 5 TO 234

L2 5 SEA SSS SAM L1

=> s l1 sss full

FULL SEARCH INITIATED 13:54:13 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 659 TO ITERATE

100.0% PROCESSED 659 ITERATIONS

76 ANSWERS

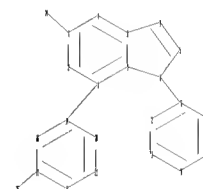
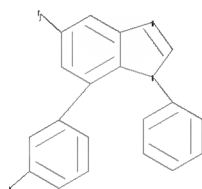
SEARCH TIME: 00.00.01

L3 76 SEA SSS FUL L1

11575380

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Uploading C:\Program Files\Stnexp\Queries\10575380a.str



```
chain nodes :
24 26
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21
chain bonds :
1-19 3-24 6-13 17-26
ring bonds :
1-2 1-7 2-3 3-4 4-8 5-6 5-9 6-7 7-8 8-9 10-11 10-15 11-12 12-13 13-14
14-15 16-17 16-21 17-18 18-19 19-20 20-21
exact/norm bonds :
3-24 5-6 5-9 6-7 6-13 8-9 17-26
exact bonds :
1-19
normalized bonds :
1-2 1-7 2-3 3-4 4-8 7-8 10-11 10-15 11-12 12-13 13-14 14-15 16-17
16-21 17-18 18-19 19-20 20-21
isolated ring systems :
containing 1 : 10 : 16 :
```

G1:CF3,MeO,EtO,n-PrO,i-PrO,n-BuO,i-BuO,CN,NO2,X,Ak

Match level :

```
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom 24:CLASS 26:CLASS
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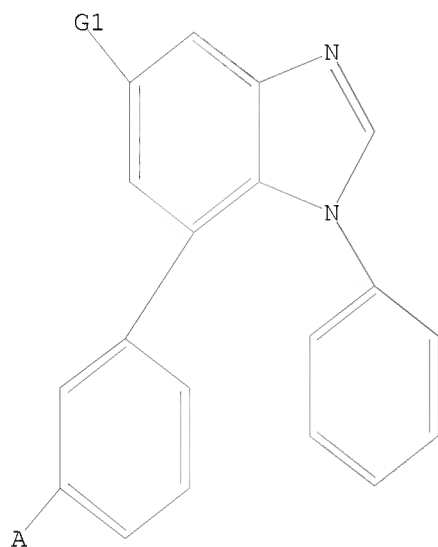
11575380

L4 STRUCTURE UPLOADED

=> d 14

L4 HAS NO ANSWERS

L4 STR



G1 CF₃, MeO, EtO, n-PrO, i-PrO, n-BuO, i-BuO, CN, NO₂, X, Ak

Structure attributes must be viewed using STN Express query preparation.

=> s 14

SAMPLE SEARCH INITIATED 13:55:37 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 31 TO ITERATE

100.0% PROCESSED 31 ITERATIONS

4 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 286 TO 954

PROJECTED ANSWERS: 4 TO 200

L5 4 SEA SSS SAM L4

=> s 14 sss full

FULL SEARCH INITIATED 13:55:43 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 659 TO ITERATE

100.0% PROCESSED 659 ITERATIONS

59 ANSWERS

SEARCH TIME: 00.00.01

11575380

L6 59 SEA SSS FUL L4

=> FIL HCAPLUS

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

357.18

357.39

FILE 'HCAPLUS' ENTERED AT 13:55:47 ON 19 NOV 2008

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FILE COVERS 1907 - 19 Nov 2008 VOL 149 ISS 21

FILE LAST UPDATED: 18 Nov 2008 (20081118/ED)

HCAPLUS now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 13

L7 3 L3

=> s 16

L8 3 L6

=> d 17 ibib abs hitstr tot

L7 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:395281 HCAPLUS

DOCUMENT NUMBER: 142:447213

TITLE: A preparation of 1,5,7-trisubstituted benzimidazole derivatives, useful as modulator of GABAA receptor

INVENTOR(S): Hamilton, Niall Morton; Napier, Susan Elizabeth; Easson, Morag Ann Maccall; Cooke, Andrew John; Teuber, Lene; Mirza, Naheed; Waetjen, Frank

PATENT ASSIGNEE(S): Akzo Nobel N.V., Neth.; Neurosearch A/S

SOURCE: PCT Int. Appl., 65 pp.

CODEN: PIXXD2

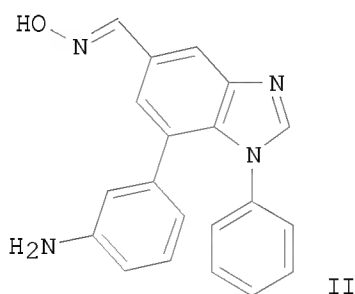
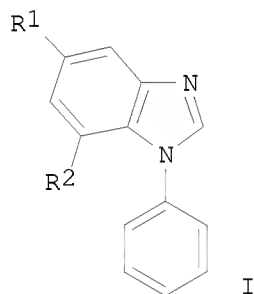
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005040131	A1	20050506	WO 2004-EP52582	20041020
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1678144	A1	20060712	EP 2004-791257	20041020
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
JP 2007509108	T	20070412	JP 2006-536085	20041020
US 20070021482	A1	20070125	US 2006-575380	20060411
PRIORITY APPLN. INFO.:			DK 2003-1566	A 20031023
			US 2003-513609P	P 20031024
			WO 2004-EP52582	W 20041020
OTHER SOURCE(S):			CASREACT 142:447213; MARPAT 142:447213	
GI				



- AB The invention relates to a preparation of 1,5,7-trisubstituted benzimidazole derivs. of formula I [wherein: R1 is halogen, CF3, CN, NO2, alkyl, or alkoxy, etc.; R2 is (un)substituted phenyl], useful as modulator of GABAA receptor. The invention compds. are useful in the treatment of central nervous system diseases and disorders, which are responsive to modulation of GABAA receptor. For instance, (aminophenyl)benzimidazole oxime derivative II (IC50 = 0.0042 μ M) was prepared via reduction and N-formylation of 7-(3-aminophenyl)-5-cyano-1-phenylbenzimidazole and subsequent oxime-formation of the obtained 7-[3-(formylamino)phenyl]-5-formyl-1-phenylbenzimidazole (yields: reduction/formylation - 27%, oxime formation - 13%).
- IT 851230-13-2P, 5-Cyano-7-(4-hydroxymethylphenyl)-1-phenylbenzimidazole 851230-14-3P 851230-30-3P, 5-Ethoxycarbonyl-1-phenyl-7-(3-trifluoromethoxyphenyl)benzimidazole
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

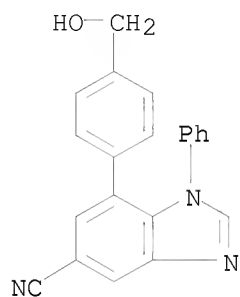
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(Reactant or reagent)

(intermediate; preparation of 1,5,7-trisubstituted benzimidazole derivs.
useful as modulator of GABAA receptor)

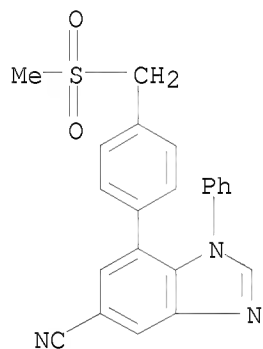
RN 851230-13-2 HCAPLUS

CN 1H-Benzimidazole-5-carbonitrile, 7-[4-(hydroxymethyl)phenyl]-1-phenyl-
(CA INDEX NAME)



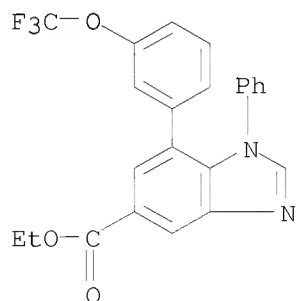
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CN 1H-Benzimidazole-5-carbonitrile, 7-[4-[(methylsulfonyl)methyl]phenyl]-1-
phenyl- (CA INDEX NAME)

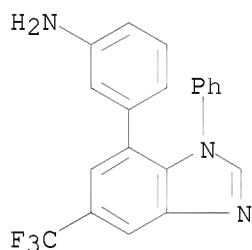


RN 851230-30-3 HCAPLUS

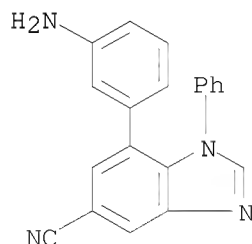
CN 1H-Benzimidazole-5-carboxylic acid,
1-phenyl-7-[3-(trifluoromethoxy)phenyl]-, ethyl ester (CA INDEX NAME)



IT 159726-00-8P, 7-(3-Aminophenyl)-1-phenyl-5-trifluoromethylbenzimidazole 851229-48-6P, 7-(3-Aminophenyl)-5-cyano-1-phenylbenzimidazole 851229-55-5P, 7-[3-(Hydroxymethyl)phenyl]-1-phenyl-5-trifluoromethylbenzimidazole 851229-57-7P, 7-(3-Acetamidophenyl)-5-ethoxycarbonyl-1-phenylbenzimidazole 851229-59-9P, 7-(3-Aminophenyl)-5-ethoxycarbonyl-1-phenylbenzimidazole 851229-60-2P, 5-(Ethoxycarbonyl)-7-[3-(hydroxymethyl)phenyl]-1-phenylbenzimidazole 851229-65-7P, 5-Cyano-7-(3-hydroxymethylphenyl)-1-phenylbenzimidazole 851229-87-3P, 5-Cyano-7-(4-hydroxyphenyl)-1-phenylbenzimidazole 851229-89-5P 851230-06-3P, 7-(3-Acetamidophenyl)-1-phenyl-5-trifluoromethylbenzimidazole 851230-34-7P, 7-(3-Acetylphenyl)-1-phenyl-5-trifluoromethylbenzimidazole 851230-44-9P, 7-[3-(1-Hydroxyethyl)phenyl]-1-phenyl-5-trifluoromethylbenzimidazole 851363-74-1P
 RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (preparation of 1,5,7-trisubstituted benzimidazole derivs. useful as modulator of GABAA receptor)
 RN 159726-00-8 HCAPLUS
 CN Benzenamine, 3-[1-phenyl-5-(trifluoromethyl)-1H-benzimidazol-7-yl]- (CA INDEX NAME)

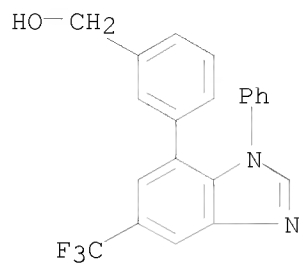


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 CN 1H-Benzimidazole-5-carbonitrile, 7-(3-aminophenyl)-1-phenyl- (CA INDEX NAME)



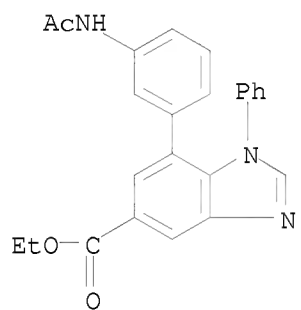
RN 851229-55-5 HCAPLUS
 CN Benzenemethanol, 3-[1-phenyl-5-(trifluoromethyl)-1H-benzimidazol-7-yl]- (CA INDEX NAME)

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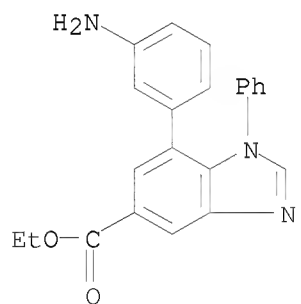
RN 851229-57-7 HCAPLUS

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RN 851229-59-9 HCAPLUS

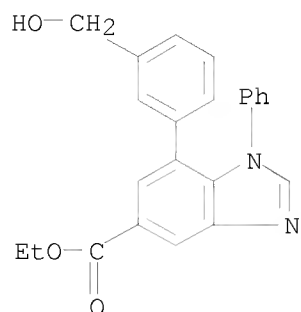
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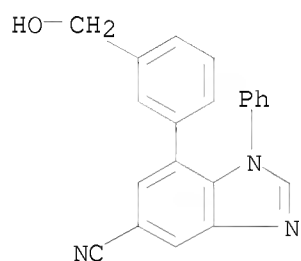
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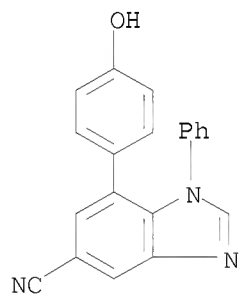
RN 851229-65-7 HCAPLUS

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(CA INDEX NAME)



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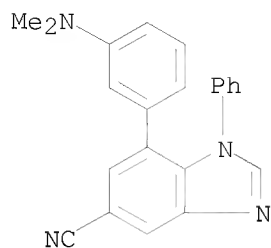
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NAME)



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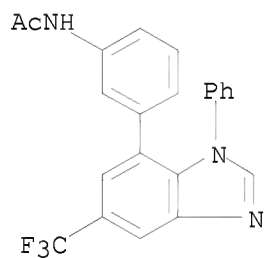
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(CA INDEX NAME)

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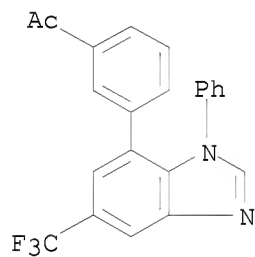
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CN Acetamide, N-[3-[1-phenyl-5-(trifluoromethyl)-1H-benzimidazol-7-yl]phenyl]-
(CA INDEX NAME)



RN 851230-34-7 HCAPLUS

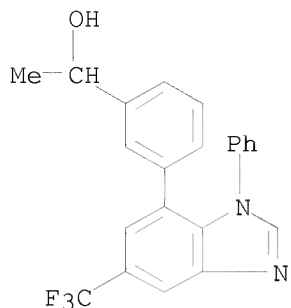
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(CA INDEX NAME)



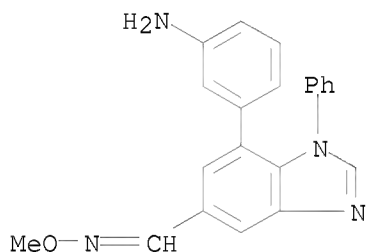
RN 851230-44-9 HCAPLUS

CN Benzenemethanol, α -methyl-3-[1-phenyl-5-(trifluoromethyl)-1H-benzimidazol-7-yl]-
(CA INDEX NAME)

11575380



RN 851363-74-1 HCAPLUS
CN 1H-Benzimidazole-5-carboxaldehyde, 7-(3-aminophenyl)-1-phenyl-,
O-methyloxime (CA INDEX NAME)



IT 159726-03-1P, 1,7-Diphenyl-5-trifluoromethylbenzimidazole
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trifluoromethylbenzimidazole 851229-47-5P 851229-56-6P
, 1-Phenyl-7-[3-(1,2,3,6-tetrahydropyridin-1-ylmethyl)phenyl]-5-
trifluoromethylbenzimidazole 851229-61-3P 851229-63-5P
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851230-04-1P, 7-(4-Acetamidophenyl)-5-cyano-1-phenylbenzimidazole
851230-08-5P 851230-10-9P 851230-12-1P
851230-16-5P 851230-17-6P,
7-(3-Acetamidophenyl)-5-hydroxymethyl-1-phenylbenzimidazole
851230-18-7P 851230-19-8P,
7-(3-Dimethylaminophenyl)-5-trifluoromethyl-1-phenylbenzimidazole
851230-20-1P, 7-(3-Methylaminophenyl)-5-trifluoromethyl-1-

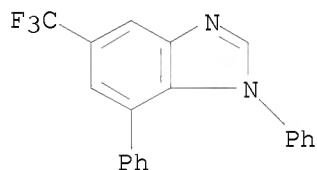
phenylbenzimidazole 851230-21-2P,
 1-Phenyl-7-[3-[(4-methylpiperazin-1-yl)methyl]phenyl]-5-
 trifluoromethylbenzimidazole 851230-23-4P 851230-24-5P
 , 7-[3-[(Dimethylamino)methyl]phenyl]-1-phenyl-5-
 trifluoromethylbenzimidazole 851230-25-6P,
 5-Cyano-7-[4-[2-(4-morpholino)ethoxy]phenyl]-1-phenylbenzimidazole
 851230-26-7P 851230-27-8P,
 7-[3-(N-Methylacetamido)phenyl]-1-phenyl-5-trifluoromethylbenzimidazole
 851230-29-0P, 5-(Hydroxymethyl)-1-phenyl-7-(3-
 trifluoromethoxyphenyl)benzimidazole 851230-35-8P,
 7-(3-Fluorophenyl)-1-phenyl-5-trifluoromethylbenzimidazole
 851230-40-5P, 5-tert-Butyl-7-(3-dimethylaminophenyl)-1-
 phenylbenzimidazole 851230-41-6P 851230-43-8P,
 7-[3-(1-Methoxyethyl)phenyl]-1-phenyl-5-trifluoromethylbenzimidazole
 851230-56-3P 851230-58-5P,
 7-(3-Fluorophenyl)-5-methyl-1-phenylbenzimidazole 851230-59-6P
 851230-89-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
 (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
 (Uses)

(preparation of 1,5,7-trisubstituted benzimidazole derivs. useful as
 modulator of GABAA receptor)

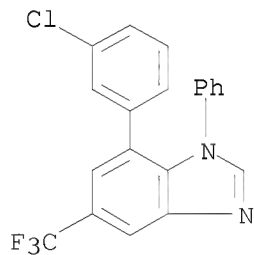
RN 159726-03-1 HCAPLUS

CN 1H-Benzimidazole, 1,7-diphenyl-5-(trifluoromethyl)- (CA INDEX NAME)



RN 851229-46-4 HCAPLUS

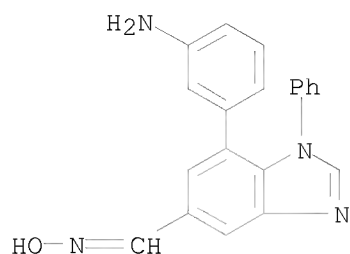
CN 1H-Benzimidazole, 7-(3-chlorophenyl)-1-phenyl-5-(trifluoromethyl)- (CA
 INDEX NAME)



RN 851229-47-5 HCAPLUS

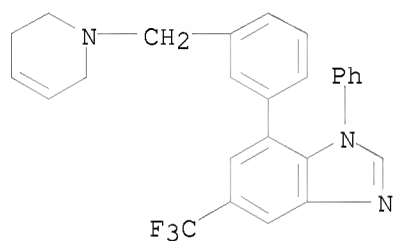
CN 1H-Benzimidazole-5-carboxaldehyde, 7-(3-aminophenyl)-1-phenyl-, oxime (CA
 INDEX NAME)

11575380



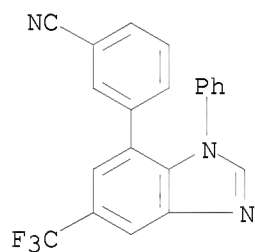
RN 851229-56-6 HCAPLUS

CN 1H-Benzimidazole, 7-[3-[(3,6-dihydro-1(2H)-pyridinyl)methyl]phenyl]-1-phenyl-5-(trifluoromethyl)- (CA INDEX NAME)



RN 851229-61-3 HCAPLUS

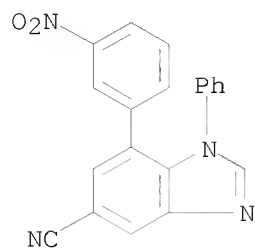
CN Benzonitrile, 3-[1-phenyl-5-(trifluoromethyl)-1H-benzimidazol-7-yl]- (CA INDEX NAME)



RN 851229-63-5 HCAPLUS

CN 1H-Benzimidazole-5-carbonitrile, 7-(3-nitrophenyl)-1-phenyl- (CA INDEX NAME)

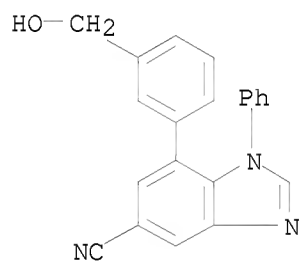
11575380



RN 851229-66-8 HCAPLUS
CN 1H-Benzimidazole-5-carbonitrile, 7-[3-(hydroxymethyl)phenyl]-1-phenyl-,
2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

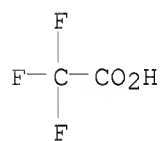
CM 1

CRN 851229-65-7
CMF C21 H15 N3 O



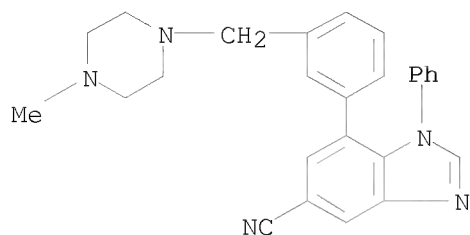
CM 2

CRN 76-05-1
CMF C2 H F3 O2



RN 851229-68-0 HCAPLUS
CN 1H-Benzimidazole-5-carbonitrile, 7-[3-[(4-methyl-1-piperazinyl)methyl]phenyl]-1-phenyl- (CA INDEX NAME)

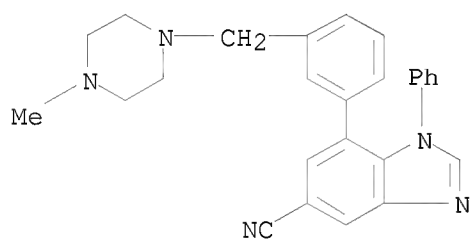
11575380



RN 851229-69-1 HCAPLUS
CN 1H-Benzimidazole-5-carbonitrile, 7-[3-[(4-methyl-1-piperazinyl)methyl]phenyl]-1-phenyl-, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

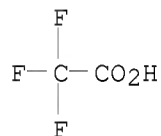
CM 1

CRN 851229-68-0
CMF C26 H25 N5



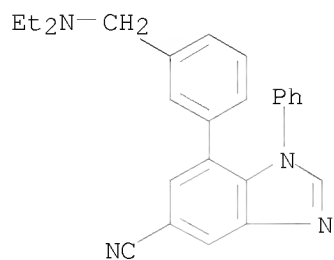
CM 2

CRN 76-05-1
CMF C2 H F3 O2

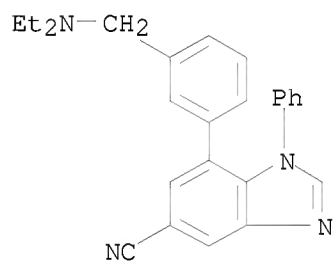


RN 851229-73-7 HCAPLUS
CN 1H-Benzimidazole-5-carbonitrile, 7-[3-[(diethylamino)methyl]phenyl]-1-phenyl- (CA INDEX NAME)

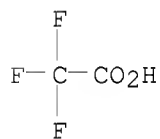
11575380



RN 851229-74-8 HCAPLUS
CN 1H-Benzimidazole-5-carbonitrile, 7-[3-[(diethylamino)methyl]phenyl]-1-phenyl-, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)
CM 1
CRN 851229-73-7
CMF C25 H24 N4

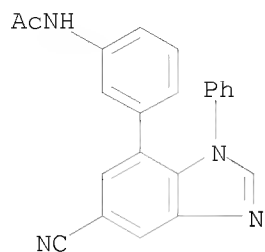


CM 2
CRN 76-05-1
CMF C2 H F3 O2

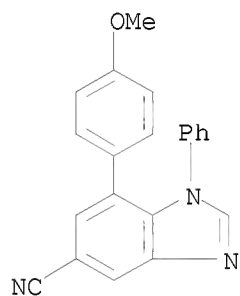


RN 851229-78-2 HCAPLUS
CN Acetamide, N-[3-(5-cyano-1-phenyl-1H-benzimidazol-7-yl)phenyl]- (CA INDEX NAME)

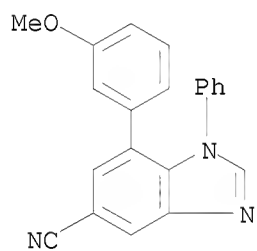
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RN 851229-80-6 HCAPLUS
CN 1H-Benzimidazole-5-carbonitrile, 7-(4-methoxyphenyl)-1-phenyl- (CA INDEX NAME)

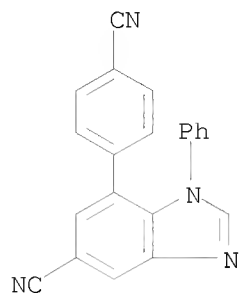


RN 851229-82-8 HCAPLUS
CN 1H-Benzimidazole-5-carbonitrile, 7-(3-methoxyphenyl)-1-phenyl- (CA INDEX NAME)

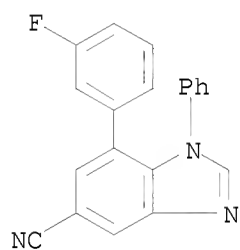


RN 851229-84-0 HCAPLUS
CN 1H-Benzimidazole-5-carbonitrile, 7-(4-cyanophenyl)-1-phenyl- (CA INDEX NAME)

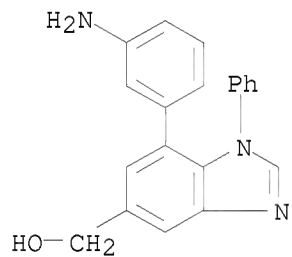
11575380



RN 851229-86-2 HCAPLUS
CN 1H-Benzimidazole-5-carbonitrile, 7-(3-fluorophenyl)-1-phenyl- (CA INDEX NAME)

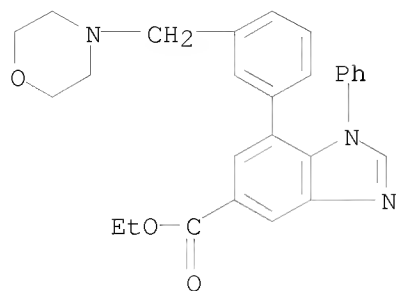


RN 851229-95-3 HCAPLUS
CN 1H-Benzimidazole-5-methanol, 7-(3-aminophenyl)-1-phenyl- (CA INDEX NAME)



RN 851229-96-4 HCAPLUS
CN 1H-Benzimidazole-5-carboxylic acid,
7-[3-(4-morpholinylmethyl)phenyl]-1-phenyl-, ethyl ester, hydrochloride
(1:1) (CA INDEX NAME)

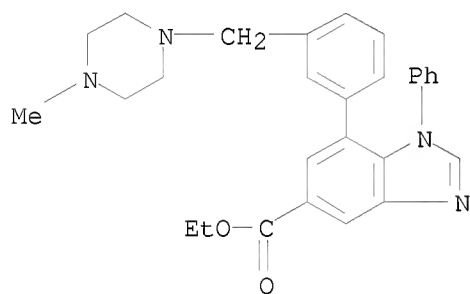
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● HCl

RN 851229-98-6 HCAPLUS

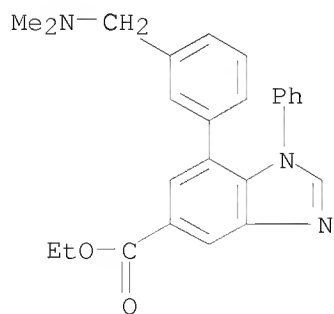
CN 1H-Benzimidazole-5-carboxylic acid,
7-[3-[(4-methyl-1-piperazinyl)methyl]phenyl]-1-phenyl-, ethyl ester,
hydrochloride (1:1) (CA INDEX NAME)



● HCl

RN 851229-99-7 HCAPLUS

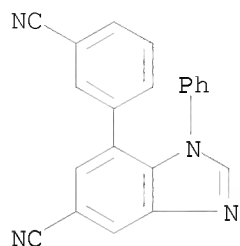
CN 1H-Benzimidazole-5-carboxylic acid,
7-[3-[(dimethylamino)methyl]phenyl]-1-phenyl-, ethyl ester (CA INDEX
NAME)



11575380

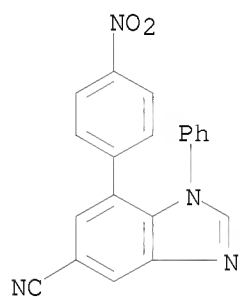
RN 851230-00-7 HCAPLUS

CN 1H-Benzimidazole-5-carbonitrile, 7-(3-cyanophenyl)-1-phenyl- (CA INDEX NAME)



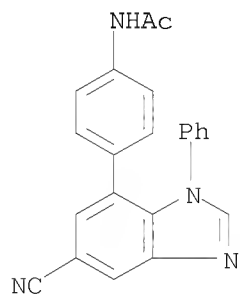
RN 851230-02-9 HCAPLUS

CN 1H-Benzimidazole-5-carbonitrile, 7-(4-nitrophenyl)-1-phenyl- (CA INDEX NAME)



RN 851230-04-1 HCAPLUS

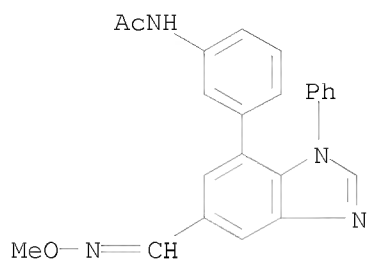
CN Acetamide, N-[4-(5-cyano-1-phenyl-1H-benzimidazol-7-yl)phenyl]- (CA INDEX NAME)



RN 851230-08-5 HCAPLUS

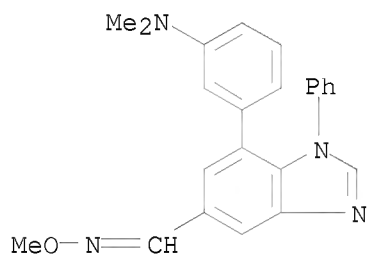
CN Acetamide, N-[3-[5-[(methoxyimino)methyl]-1-phenyl-1H-benzimidazol-7-yl]phenyl]- (CA INDEX NAME)

11575380



RN 851230-10-9 HCAPLUS

CN 1H-Benzimidazole-5-carboxaldehyde, 7-[3-(dimethylamino)phenyl]-1-phenyl-, O-methyloxime (CA INDEX NAME)



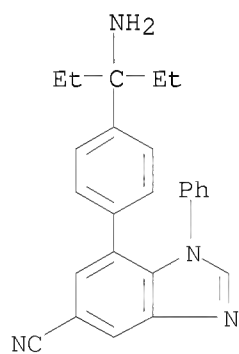
RN 851230-12-1 HCAPLUS

CN 1H-Benzimidazole-5-carbonitrile, 7-[4-(1-amino-1-ethylpropyl)phenyl]-1-phenyl-, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

CM 1

CRN 851230-11-0

CMF C25 H24 N4

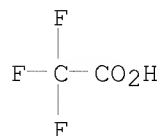


CM 2

CRN 76-05-1

CMF C2 H F3 O2

11575380



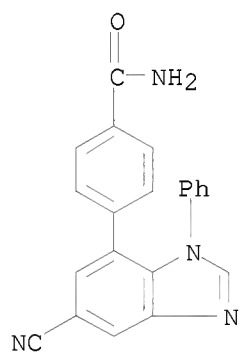
RN 851230-16-5 HCAPLUS

CN Benzamide, 4-(5-cyano-1-phenyl-1H-benzimidazol-7-yl)-,
2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

CM 1

CRN 851230-15-4

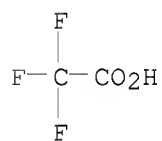
CMF C21 H14 N4 O



CM 2

CRN 76-05-1

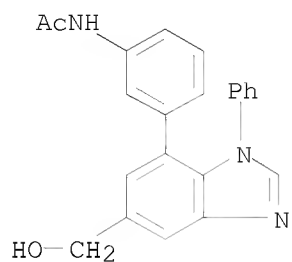
CMF C2 H F3 O2



RN 851230-17-6 HCAPLUS

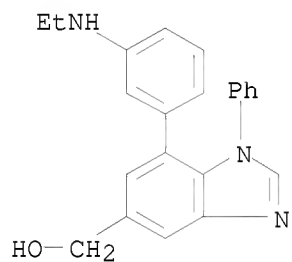
CN Acetamide, N-[3-[5-(hydroxymethyl)-1-phenyl-1H-benzimidazol-7-yl]phenyl]-
(CA INDEX NAME)

11575380



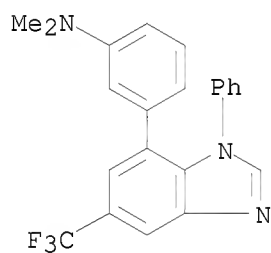
RN 851230-18-7 HCAPLUS

CN 1H-Benzimidazole-5-methanol, 7-[3-(ethylamino)phenyl]-1-phenyl- (CA INDEX NAME)



RN 851230-19-8 HCAPLUS

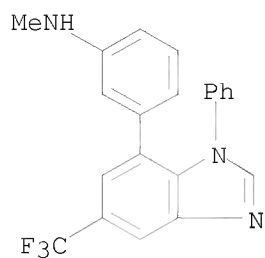
CN Benzenamine, N,N-dimethyl-3-[1-phenyl-5-(trifluoromethyl)-1H-benzimidazol-7-yl]- (CA INDEX NAME)



RN 851230-20-1 HCAPLUS

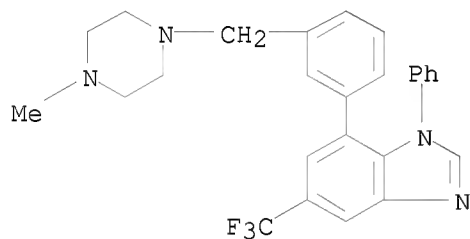
CN Benzenamine, N-methyl-3-[1-phenyl-5-(trifluoromethyl)-1H-benzimidazol-7-yl]- (CA INDEX NAME)

11575380



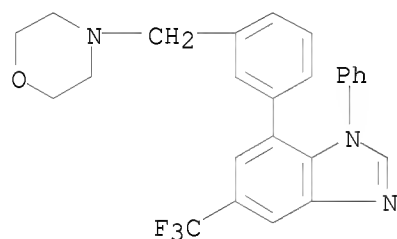
RN 851230-21-2 HCAPLUS

CN 1H-Benzimidazole, 7-[3-[(4-methyl-1-piperazinyl)methyl]phenyl]-1-phenyl-5-(trifluoromethyl)- (CA INDEX NAME)



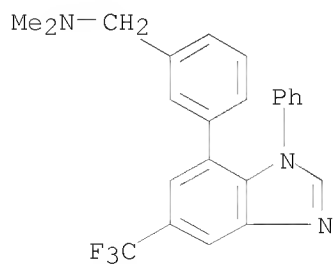
RN 851230-23-4 HCAPLUS

CN 1H-Benzimidazole, 7-[3-(4-morpholinylmethyl)phenyl]-1-phenyl-5-(trifluoromethyl)- (CA INDEX NAME)



RN 851230-24-5 HCAPLUS

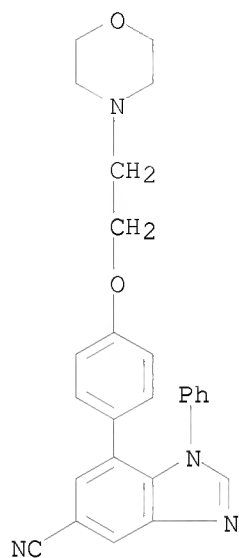
CN Benzenemethanamine, N,N-dimethyl-3-[1-phenyl-5-(trifluoromethyl)-1H-benzimidazol-7-yl]- (CA INDEX NAME)



11575380

RN 851230-25-6 HCAPLUS

CN 1H-Benzimidazole-5-carbonitrile, 7-[4-[2-(4-morpholinyl)ethoxy]phenyl]-1-phenyl- (CA INDEX NAME)



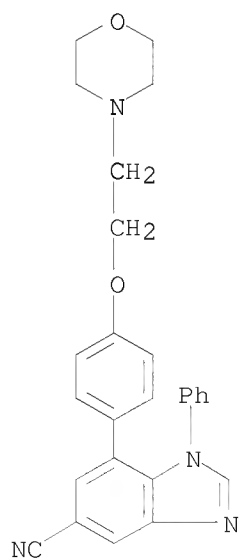
RN 851230-26-7 HCAPLUS

CN 1H-Benzimidazole-5-carbonitrile, 7-[4-[2-(4-morpholinyl)ethoxy]phenyl]-1-phenyl-, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

CM 1

CRN 851230-25-6

CMF C26 H24 N4 O2

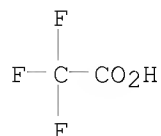


11575380

CM 2

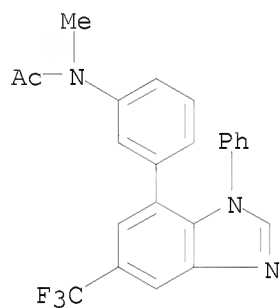
CRN 76-05-1

CMF C2 H F3 O2



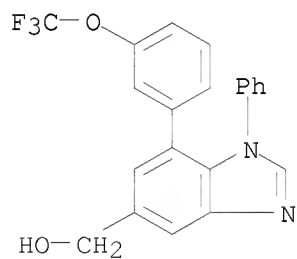
RN 851230-27-8 HCAPLUS

CN Acetamide, N-methyl-N-[3-[1-phenyl-5-(trifluoromethyl)-1H-benzimidazol-7-yl]phenyl]- (CA INDEX NAME)



RN 851230-29-0 HCAPLUS

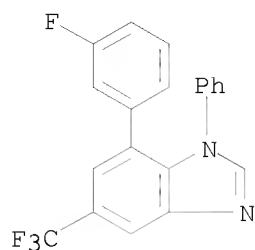
CN 1H-Benzimidazole-5-methanol, 1-phenyl-7-[3-(trifluoromethoxy)phenyl]- (CA INDEX NAME)



RN 851230-35-8 HCAPLUS

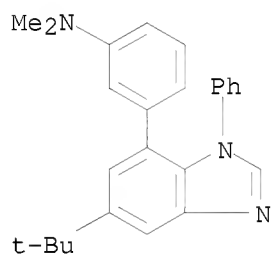
CN 1H-Benzimidazole, 7-(3-fluorophenyl)-1-phenyl-5-(trifluoromethyl)- (CA INDEX NAME)

11575380



RN 851230-40-5 HCAPLUS

CN Benzenamine, 3-[5-(1,1-dimethylethyl)-1-phenyl-1H-benzimidazol-7-yl]-N,N-dimethyl- (CA INDEX NAME)



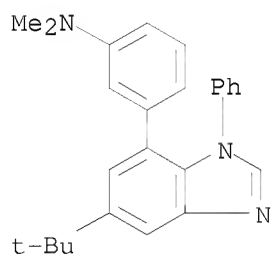
RN 851230-41-6 HCAPLUS

CN Benzenamine, 3-[5-(1,1-dimethylethyl)-1-phenyl-1H-benzimidazol-7-yl]-N,N-dimethyl-, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

CM 1

CRN 851230-40-5

CMF C25 H27 N3

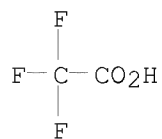


CM 2

CRN 76-05-1

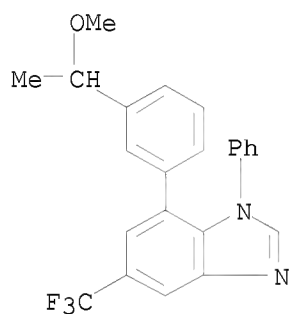
CMF C2 H F3 O2

11575380



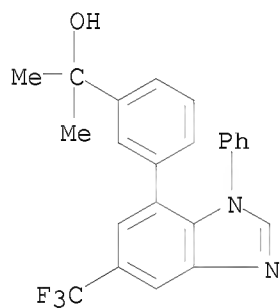
RN 851230-43-8 HCAPLUS

CN 1H-Benzimidazole, 7-[3-(1-methoxyethyl)phenyl]-1-phenyl-5-(trifluoromethyl)- (CA INDEX NAME)



RN 851230-56-3 HCAPLUS

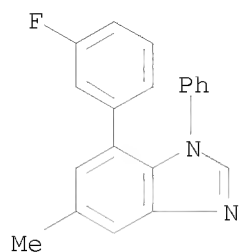
CN Benzenemethanol, α,α -dimethyl-3-[1-phenyl-5-(trifluoromethyl)-1H-benzimidazol-7-yl]- (CA INDEX NAME)



RN 851230-58-5 HCAPLUS

CN 1H-Benzimidazole, 7-(3-fluorophenyl)-5-methyl-1-phenyl- (CA INDEX NAME)

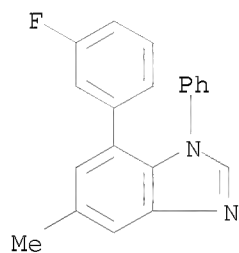
11575380



RN 851230-59-6 HCAPLUS
CN 1H-Benzimidazole, 7-(3-fluorophenyl)-5-methyl-1-phenyl-,
2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

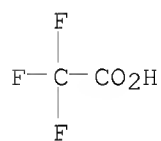
CM 1

CRN 851230-58-5
CMF C20 H15 F N2



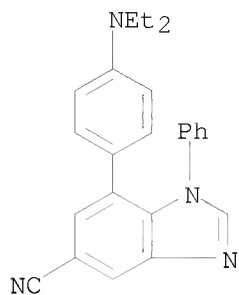
CM 2

CRN 76-05-1
CMF C2 H F3 O2

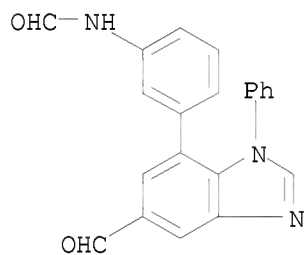


RN 851230-89-2 HCAPLUS
CN 1H-Benzimidazole-5-carbonitrile, 7-[4-(diethylamino)phenyl]-1-phenyl- (CA
INDEX NAME)

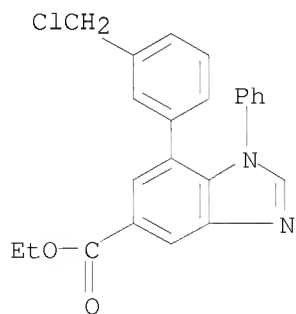
11575380



IT 851229-49-7P, 7-[3-(Formylamino)phenyl]-5-formyl-1-phenylbenzimidazole 851229-97-5P, 5-Ethoxycarbonyl-7-[3-(chloromethyl)phenyl]-1-phenylbenzimidazole 851230-22-3P, 7-[3-(Chloromethyl)phenyl]-1-phenyl-5-trifluoromethylbenzimidazole
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of 1,5,7-trisubstituted benzimidazole derivs. useful as modulator of GABAA receptor)
RN 851229-49-7 HCAPLUS
CN Formamide, N-[3-(5-formyl-1-phenyl-1H-benzimidazol-7-yl)phenyl]- (CA INDEX NAME)



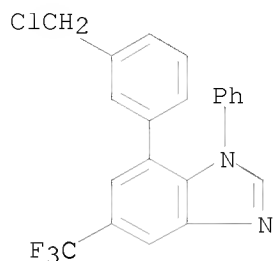
RN 851229-97-5 HCAPLUS
CN 1H-Benzimidazole-5-carboxylic acid, 7-[3-(chloromethyl)phenyl]-1-phenyl-, ethyl ester (CA INDEX NAME)



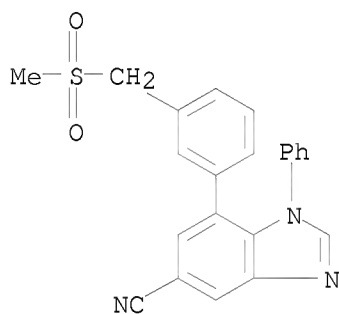
RN 851230-22-3 HCAPLUS

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CN 1H-Benzimidazole, 7-[3-(chloromethyl)phenyl]-1-phenyl-5-(trifluoromethyl)-
(CA INDEX NAME)



IT 851229-76-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(reactant; preparation of 1,5,7-trisubstituted benzimidazole derivs. useful
as modulator of GABAA receptor)
RN 851229-76-0 HCAPLUS
CN 1H-Benzimidazole-5-carbonitrile, 7-[3-[(methylsulfonyl)methyl]phenyl]-1-
phenyl- (CA INDEX NAME)

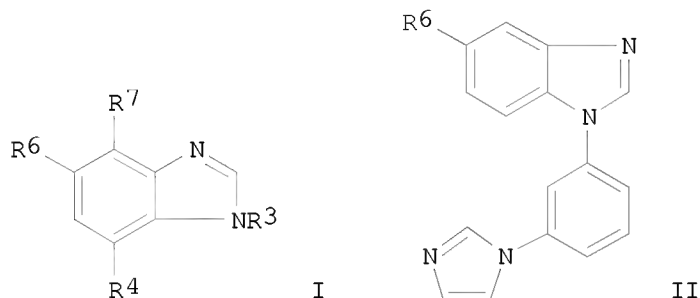


REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1996:580566 HCAPLUS
DOCUMENT NUMBER: 125:300997
ORIGINAL REFERENCE NO.: 125:56339a,56342a
TITLE: Benzimidazole compounds useful as benzodiazepine
receptor ligands
INVENTOR(S): Teuber, Lene; Axelsson, Oskar; Watjen, Frank
PATENT ASSIGNEE(S): Neurosearch A/s, Den.; Meiji Seika Kaisha, Ltd.
SOURCE: U.S., 19 pp., Cont.-in-part of U.S. Ser. No. 207,774,
abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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US 5554630	A	19960910	US 1995-410572	19950324
ZA 9402079	A	19941024	ZA 1994-2079	19940324
US 5554632	A	19960910	US 1994-352585	19941209
PRIORITY APPLN. INFO.:			DK 1993-337	A 19930324
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			US 1994-207774	B2 19940308
OTHER SOURCE(S):	MARPAT 125:300997			
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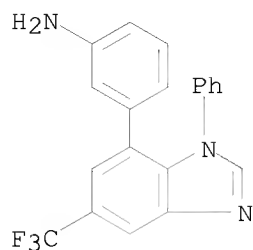
AB The invention discloses title compds. I [R³ = certain (un)substituted (hetero)aryl groups; R⁴ = H, NH₂, NO₂, cyano, halo, acylamino, (un)substituted aryl; or R⁴ forms bridges to aryl ring of R³; R⁶, R⁷ = H, halo, NH₂, NO₂, cyano, acylamino, CF₃, (un)substituted aryl; or R⁶ and R⁷ form certain optionally heteroatom-containing bridges] and their pharmaceutically acceptable salts, as well as the medical use of a broader class of 1-arylbenzimidazoles, including I. The compds. are useful for the treatment of various central nervous system disorders such as epilepsy and other convulsive disorders, anxiety, sleep disorders, and memory disorders. For example, 2-amino-3'-iodo-4-(trifluoromethyl)diphenylamine (preparation given) underwent cyclocondensation with formic acid at reflux, and coupling with imidazole in the presence of K₂CO₃ and CuBr at 200°, to give title compound II [R⁶ = CF₃]. In an in-vivo test for inhibition of [3H]-flunitrazepam specific binding to mouse forebrain GABA_A receptors, II [R⁶ = CF₃] had an ED₅₀ of 7.3 mg/kg i.p., and II [R⁶ = Me] had an ED₅₀ of 0.8 mg/kg i.p.

IT 159726-00-8P 159726-01-9P 159726-03-1P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of benzimidazole derivs. as benzodiazepine receptor ligands)

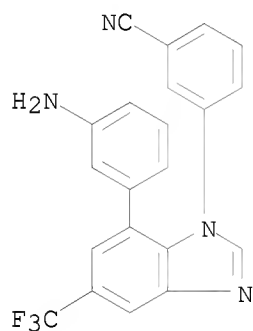
RN 159726-00-8 HCAPLUS

CN Benzenamine, 3-[1-phenyl-5-(trifluoromethyl)-1H-benzimidazol-7-yl]- (CA INDEX NAME)

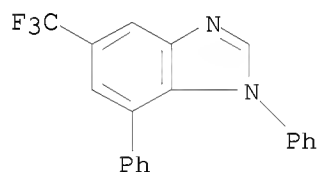
11575380



RN 159726-01-9 HCAPLUS
CN Benzonitrile, 3-[7-(3-aminophenyl)-5-(trifluoromethyl)-1H-benzimidazol-1-yl]- (CA INDEX NAME)



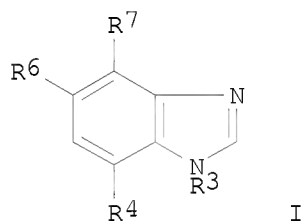
RN 159726-03-1 HCAPLUS
CN 1H-Benzimidazole, 1,7-diphenyl-5-(trifluoromethyl)- (CA INDEX NAME)



L7 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1995:252476 HCAPLUS
DOCUMENT NUMBER: 122:31527
ORIGINAL REFERENCE NO.: 122:6227a,6230a
TITLE: Preparation of benzimidazole derivatives for the treatment of central nervous system disorders.
INVENTOR(S): Axelsson, Oskar; Teuber, Lene; Watjen, Frank
PATENT ASSIGNEE(S): Neurosearch A/S, Den.; Meiji Seika Kaisha Ltd.
SOURCE: Eur. Pat. Appl., 35 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2

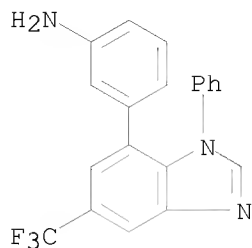
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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EP 616807	B1	19980708		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
AU 9457521	A	19940929	AU 1994-57521	19940303
AU 675484	B2	19970206		
AT 168007	T	19980715	AT 1994-610012	19940311
ES 2119124	T3	19981001	ES 1994-610012	19940311
CA 2119511	A1	19940925	CA 1994-2119511	19940321
CA 2119511	C	20020716		
NO 9401052	A	19940926	NO 1994-1052	19940323
CN 1099391	A	19950301	CN 1994-103348	19940323
CN 1057088	C	20001004		
FI 9401378	A	19940925	FI 1994-1378	19940324
FI 113651	B1	20040531		
ZA 9402079	A	19941024	ZA 1994-2079	19940324
JP 07002838	A	19950106	JP 1994-78094	19940324
JP 3466265	B2	20031110		
PRIORITY APPLN. INFO.:			DK 1993-337	A 19930324
			DK 1993-1055	A 19930921
OTHER SOURCE(S):		MARPAT 122:31527		
GI				

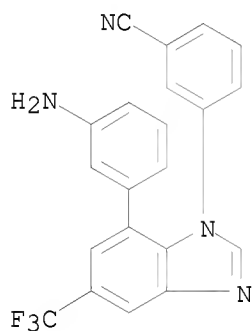


- AB Benzimidazole compds. I (R3 = substituted Ph, pyridinyl, etc.; R4 = H, amino, nitro, etc.; R6, R7 = H, halo, cyano, nitro, etc.) were disclosed for the treatment of various central nervous system disorders such as epilepsy and other convulsive disorders, anxiety, sleep disorders and memory disorders.
- IT 159726-00-8P 159726-01-9P 159726-03-1P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of benzimidazole derivs. GABA receptor antagonists or agonists)
- RN 159726-00-8 HCAPLUS
- CN Benzenamine, 3-[1-phenyl-5-(trifluoromethyl)-1H-benzimidazol-7-yl]- (CA INDEX NAME)

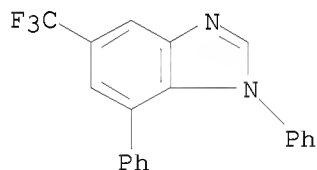
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RN 159726-01-9 HCAPLUS
CN Benzonitrile, 3-[7-(3-aminophenyl)-5-(trifluoromethyl)-1H-benzimidazol-1-yl]- (CA INDEX NAME)



RN 159726-03-1 HCAPLUS
CN 1H-Benzimidazole, 1,7-diphenyl-5-(trifluoromethyl)- (CA INDEX NAME)

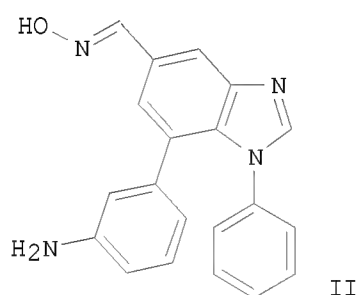
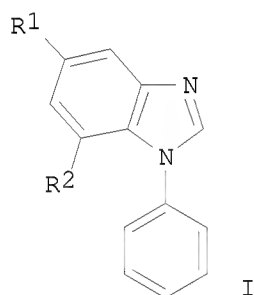


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L8 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2005:395281 HCAPLUS
DOCUMENT NUMBER: 142:447213
TITLE: A preparation of 1,5,7-trisubstituted benzimidazole derivatives, useful as modulator of GABAA receptor
INVENTOR(S): Hamilton, Niall Morton; Napier, Susan Elizabeth; Easson, Morag Ann Maccall; Cooke, Andrew John; Teuber, Lene; Mirza, Naheed; Waetjen, Frank
PATENT ASSIGNEE(S): Akzo Nobel N.V., Neth.; Neurosearch A/S
SOURCE: PCT Int. Appl., 65 pp.

CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005040131	A1	20050506	WO 2004-EP52582	20041020
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1678144	A1	20060712	EP 2004-791257	20041020
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
JP 2007509108	T	20070412	JP 2006-536085	20041020
US 20070021482	A1	20070125	US 2006-575380	20060411
PRIORITY APPLN. INFO.:			DK 2003-1566	A 20031023
			US 2003-513609P	P 20031024
			WO 2004-EP52582	W 20041020
OTHER SOURCE(S):			CASREACT 142:447213; MARPAT 142:447213	
GI				



AB The invention relates to a preparation of 1,5,7-trisubstituted benzimidazole derivs. of formula I [wherein: R1 is halogen, CF3, CN, NO2, alkyl, or alkoxy, etc.; R2 is (un)substituted phenyl], useful as modulator of GABAA receptor. The invention compds. are useful in the treatment of central nervous system diseases and disorders, which are responsive to modulation of GABAA receptor. For instance, (aminophenyl)benzimidazole oxime derivative II (IC50 = 0.0042 μ M) was prepared via reduction and N-formylation of 7-(3-aminophenyl)-5-cyano-1-phenylbenzimidazole and subsequent oxime-formation of the obtained 7-[3-(formylamino)phenyl]-5-formyl-1-phenylbenzimidazole (yields: reduction/formylation - 27%, oxime formation -

13%).

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1996:580566 HCAPLUS

DOCUMENT NUMBER: 125:300997

ORIGINAL REFERENCE NO.: 125:56339a, 56342a

TITLE: Benzimidazole compounds useful as benzodiazepine receptor ligands

INVENTOR(S): Teuber, Lene; Axelsson, Oskar; Watjen, Frank

PATENT ASSIGNEE(S): Neurosearch A/s, Den.; Meiji Seika Kaisha, Ltd.

SOURCE: U.S., 19 pp., Cont.-in-part of U.S. Ser. No. 207,774, abandoned.

CODEN: USXXAM

DOCUMENT TYPE: Patent

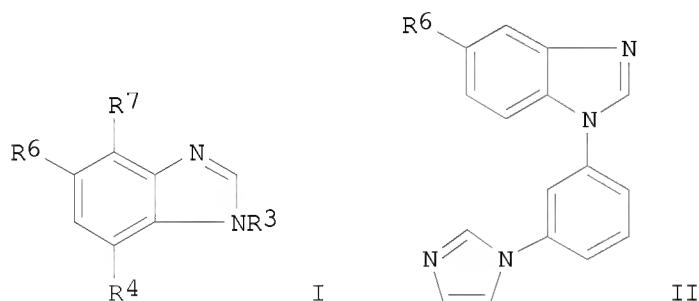
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5554630	A	19960910	US 1995-410572	19950324
ZA 9402079	A	19941024	ZA 1994-2079	19940324
US 5554632	A	19960910	US 1994-352585	19941209
PRIORITY APPLN. INFO.:			DK 1993-337	A 19930324
			DK 1993-1055	A 19930921
			US 1994-207774	B2 19940308

OTHER SOURCE(S): MARPAT 125:300997
GI



AB The invention discloses title compds. I [R3 = certain (un)substituted (hetero)aryl groups; R4 = H, NH2, NO2, cyano, halo, acylamino, (un)substituted aryl; or R4 forms bridges to aryl ring of R3; R6, R7 = H, halo, NH2, NO2, cyano, acylamino, CF3, (un)substituted aryl; or R6 and R7 form certain optionally heteroatom-containing bridges] and their pharmaceutically acceptable salts, as well as the medical use of a broader class of 1-arylbenzimidazoles, including I. The compds. are useful for the treatment of various central nervous system disorders such as epilepsy and other convulsive disorders, anxiety, sleep disorders, and memory

disorders. For example, 2-amino-3'-iodo-4-(trifluoromethyl)diphenylamine (preparation given) underwent cyclocondensation with formic acid at reflux, and coupling with imidazole in the presence of K₂CO₃ and CuBr at 200°, to give title compound II [R₆ = CF₃]. In an in-vivo test for inhibition of [3H]-flunitrazepam specific binding to mouse forebrain GABA_A receptors, II [R₆ = CF₃] had an ED₅₀ of 7.3 mg/kg i.p., and II [R₆ = Me] had an ED₅₀ of 0.8 mg/kg i.p.

L8 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1995:252476 HCAPLUS

DOCUMENT NUMBER: 122:31527

ORIGINAL REFERENCE NO.: 122:6227a,6230a

TITLE: Preparation of benzimidazole derivatives for the treatment of central nervous system disorders.

INVENTOR(S): Axelsson, Oskar; Teuber, Lene; Watjen, Frank

PATENT ASSIGNEE(S): Neurosearch A/S, Den.; Meiji Seika Kaisha Ltd.

SOURCE: Eur. Pat. Appl., 35 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 616807	A1	19940928	EP 1994-610012	19940311
EP 616807	B1	19980708		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
AU 9457521	A	19940929	AU 1994-57521	19940303
AU 675484	B2	19970206		
AT 168007	T	19980715	AT 1994-610012	19940311
ES 2119124	T3	19981001	ES 1994-610012	19940311
CA 2119511	A1	19940925	CA 1994-2119511	19940321
CA 2119511	C	20020716		
NO 9401052	A	19940926	NO 1994-1052	19940323
CN 1099391	A	19950301	CN 1994-103348	19940323
CN 1057088	C	20001004		
FI 9401378	A	19940925	FI 1994-1378	19940324
FI 113651	B1	20040531		
ZA 9402079	A	19941024	ZA 1994-2079	19940324
JP 07002838	A	19950106	JP 1994-78094	19940324
JP 3466265	B2	20031110		

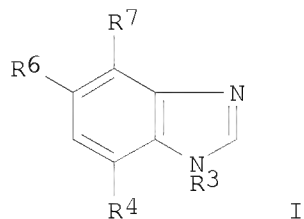
PRIORITY APPLN. INFO.:

DK 1993-337 A 19930324

DK 1993-1055 A 19930921

OTHER SOURCE(S): MARPAT 122:31527

GI



AB Benzimidazole compds. I (R3 = substituted Ph, pyridinyl, etc.; R4 = H, amino, nitro, etc.; R6, R7 = H, halo, cyano, nitro, etc.) were disclosed for the treatment of various central nervous system disorders such as epilepsy and other convulsive disorders, anxiety, sleep disorders and memory disorders.

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COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	41.22	398.61
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-4.80	-4.80

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STRUCTURE FILE UPDATES: 18 NOV 2008 HIGHEST RN 1073232-10-6
DICTIONARY FILE UPDATES: 18 NOV 2008 HIGHEST RN 1073232-10-6

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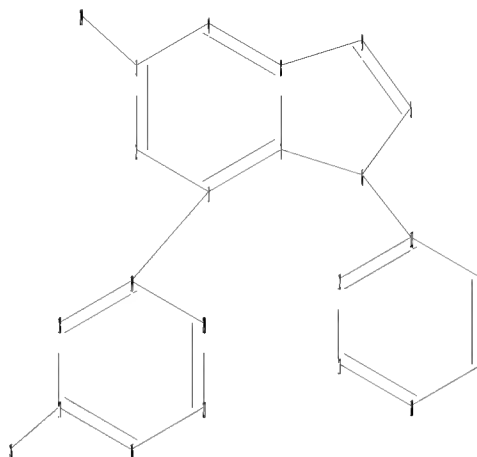
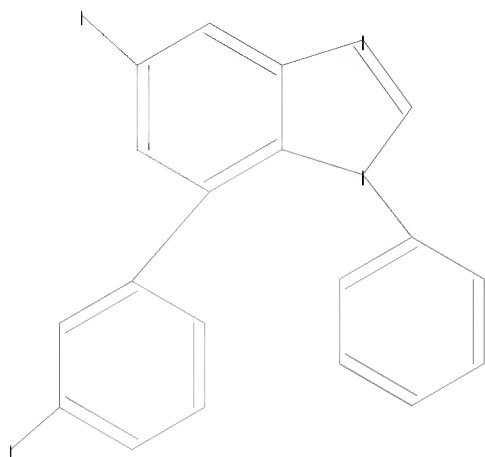
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<http://www.cas.org/support/stngen/stndoc/properties.html>

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11575380



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24 26
ring nodes :
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chain bonds :
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ring bonds :
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14-15 16-17 16-21 17-18 18-19 19-20 20-21
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exact bonds :
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normalized bonds :
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16-21 17-18 18-19 19-20 20-21
isolated ring systems :
containing 1 : 10 : 16 :
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G1:CF3,MeO,EtO,n-PrO,i-PrO,n-BuO,i-BuO,CN,NO2,X,Ak

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Match level :
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11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
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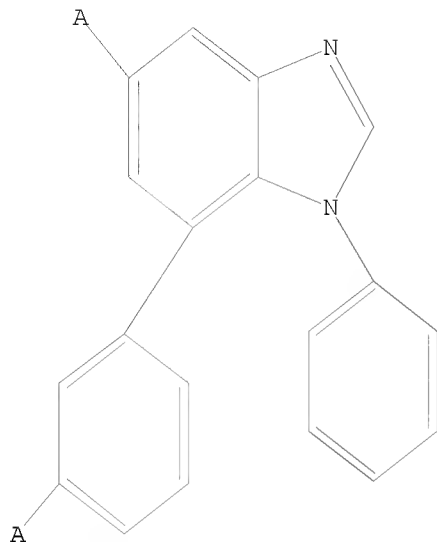
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L9 HAS NO ANSWERS

L9 STR

11575380



G1 CF₃, MeO, EtO, n-PrO, i-PrO, n-BuO, i-BuO, CN, NO₂, X, Ak

Structure attributes must be viewed using STN Express query preparation.

=> s 19

SAMPLE SEARCH INITIATED 13:59:28 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 63 TO ITERATE

100.0% PROCESSED 63 ITERATIONS

4 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 784 TO 1736

PROJECTED ANSWERS: 4 TO 200

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100.0% PROCESSED 1332 ITERATIONS

59 ANSWERS

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=> FIL HCAPLUS

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

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576.97

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

11575380

CA SUBSCRIBER PRICE

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FILE COVERS 1907 - 19 Nov 2008 VOL 149 ISS 21
FILE LAST UPDATED: 18 Nov 2008 (20081118/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

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L12 3 L11

=> d l12 ibib abs hitstr tot

L12 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:395281 HCAPLUS

DOCUMENT NUMBER: 142:447213

TITLE: A preparation of 1,5,7-trisubstituted benzimidazole derivatives, useful as modulator of GABAA receptor

INVENTOR(S): Hamilton, Niall Morton; Napier, Susan Elizabeth; Easson, Morag Ann Maccall; Cooke, Andrew John; Teuber, Lene; Mirza, Naheed; Waetjen, Frank

PATENT ASSIGNEE(S): Akzo Nobel N.V., Neth.; Neurosearch A/S

SOURCE: PCT Int. Appl., 65 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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WO 2005040131	A1	20050506	WO 2004-EP52582	20041020
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,			

NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
 TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
 AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
 EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,
 SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
 SN, TD, TG

EP 1678144 A1 20060712 EP 2004-791257 20041020
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK

JP 2007509108 T 20070412 JP 2006-536085 20041020

US 20070021482 A1 20070125 US 2006-575380 20060411

PRIORITY APPLN. INFO.:

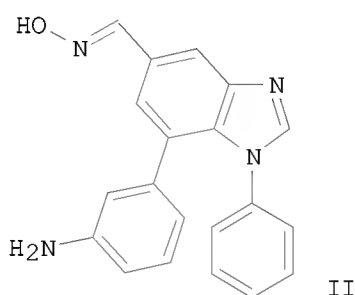
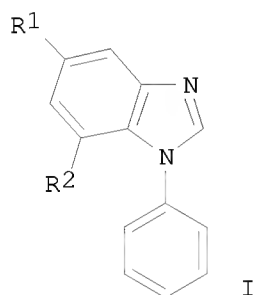
DK 2003-1566 A 20031023

US 2003-513609P P 20031024

WO 2004-EP52582 W 20041020

OTHER SOURCE(S): CASREACT 142:447213; MARPAT 142:447213

GI



AB The invention relates to a preparation of 1,5,7-trisubstituted benzimidazole derivs. of formula I [wherein: R1 is halogen, CF3, CN, NO2, alkyl, or alkoxy, etc.; R2 is (un)substituted phenyl], useful as modulator of GABAA receptor. The invention compds. are useful in the treatment of central nervous system diseases and disorders, which are responsive to modulation of GABAA receptor. For instance, (aminophenyl)benzimidazole oxime derivative II (IC50 = 0.0042 μ M) was prepared via reduction and N-formylation of 7-(3-aminophenyl)-5-cyano-1-phenylbenzimidazole and subsequent oxime-formation of the obtained 7-[3-(formylamino)phenyl]-5-formyl-1-phenylbenzimidazole (yields: reduction/formylation - 27%, oxime formation - 13%).

IT 851230-30-3P, 5-Ethoxycarbonyl-1-phenyl-7-(3-trifluoromethoxyphenyl)benzimidazole

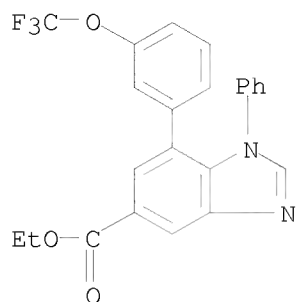
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate; preparation of 1,5,7-trisubstituted benzimidazole derivs. useful as modulator of GABAA receptor)

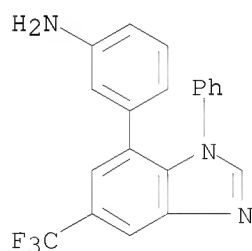
RN 851230-30-3 HCAPLUS

CN 1H-Benzimidazole-5-carboxylic acid,
 1-phenyl-7-[3-(trifluoromethoxy)phenyl]-, ethyl ester (CA INDEX NAME)

11575380

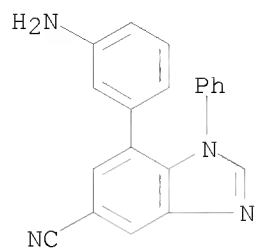


IT 159726-00-8P, 7-(3-Aminophenyl)-1-phenyl-5-trifluoromethylbenzimidazole 851229-48-6P, 7-(3-Aminophenyl)-5-cyano-1-phenylbenzimidazole 851229-55-5P, 7-[3-(Hydroxymethyl)phenyl]-1-phenyl-5-trifluoromethylbenzimidazole 851229-57-7P, 7-(3-Acetamidophenyl)-5-ethoxycarbonyl-1-phenylbenzimidazole 851229-59-9P, 7-(3-Aminophenyl)-5-ethoxycarbonyl-1-phenylbenzimidazole 851229-60-2P, 5-(Ethoxycarbonyl)-7-[3-(hydroxymethyl)phenyl]-1-phenylbenzimidazole 851229-65-7P, 5-Cyano-7-(3-hydroxymethylphenyl)-1-phenylbenzimidazole 851229-89-5P 851230-06-3P, 7-(3-Acetamidophenyl)-1-phenyl-5-trifluoromethylbenzimidazole 851230-34-7P, 7-(3-Acetylphenyl)-1-phenyl-5-trifluoromethylbenzimidazole 851230-44-9P, 7-[3-(1-Hydroxyethyl)phenyl]-1-phenyl-5-trifluoromethylbenzimidazole 851363-74-1P
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of 1,5,7-trisubstituted benzimidazole derivs. useful as modulator of GABAA receptor)
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CN Benzenamine, 3-[1-phenyl-5-(trifluoromethyl)-1H-benzimidazol-7-yl]- (CA INDEX NAME)



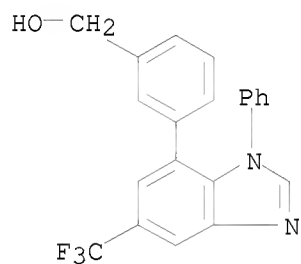
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CN 1H-Benzimidazole-5-carbonitrile, 7-(3-aminophenyl)-1-phenyl- (CA INDEX NAME)

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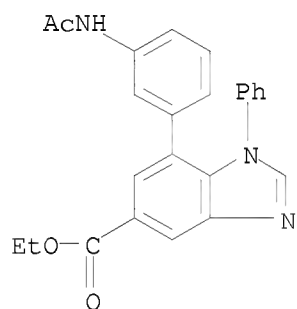
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CN Benzenemethanol, 3-[1-phenyl-5-(trifluoromethyl)-1H-benzimidazol-7-yl]-
(CA INDEX NAME)



RN 851229-57-7 HCAPLUS

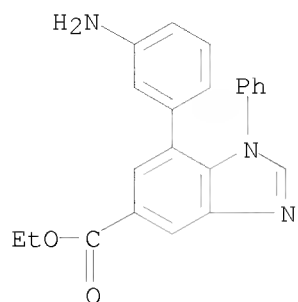
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ethyl ester (CA INDEX NAME)



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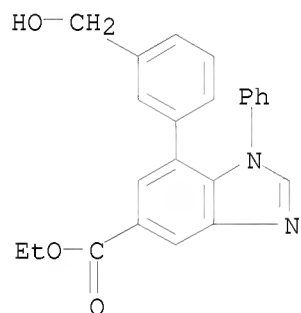
CN 1H-Benzimidazole-5-carboxylic acid, 7-(3-aminophenyl)-1-phenyl-, ethyl
ester (CA INDEX NAME)

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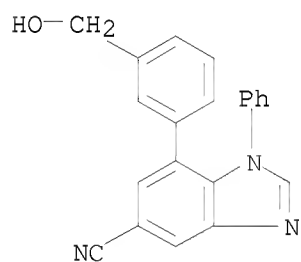
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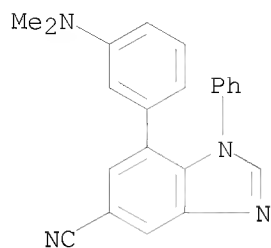
CN 1H-Benzimidazole-5-carbonitrile, 7-[3-(hydroxymethyl)phenyl]-1-phenyl- (CA INDEX NAME)



RN 851229-89-5 HCAPLUS

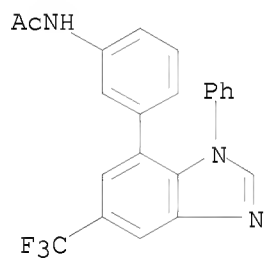
CN 1H-Benzimidazole-5-carbonitrile, 7-[3-(dimethylamino)phenyl]-1-phenyl- (CA INDEX NAME)

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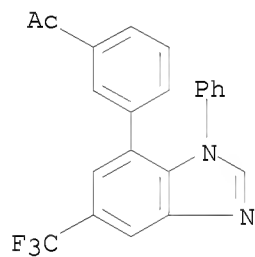
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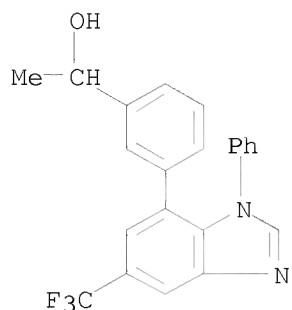
CN Ethanone, 1-[3-[1-phenyl-5-(trifluoromethyl)-1H-benzimidazol-7-yl]phenyl]-
(CA INDEX NAME)



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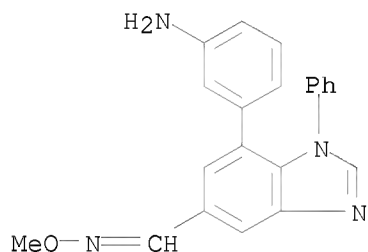
CN Benzenemethanol, α -methyl-3-[1-phenyl-5-(trifluoromethyl)-1H-benzimidazol-7-yl]-
(CA INDEX NAME)

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RN 851363-74-1 HCAPLUS

CN 1H-Benzimidazole-5-carboxaldehyde, 7-(3-aminophenyl)-1-phenyl-,
O-methyloxime (CA INDEX NAME)



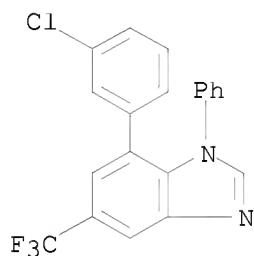
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851230-29-0P, 5-(Hydroxymethyl)-1-phenyl-7-(3-trifluoromethoxyphenyl)benzimidazole 851230-35-8P, 7-(3-Fluorophenyl)-1-phenyl-5-trifluoromethylbenzimidazole 851230-40-5P, 5-tert-Butyl-7-(3-dimethylaminophenyl)-1-phenylbenzimidazole 851230-41-6P 851230-43-8P, 7-[3-(1-Methoxyethyl)phenyl]-1-phenyl-5-trifluoromethylbenzimidazole 851230-56-3P 851230-58-5P, 7-(3-Fluorophenyl)-5-methyl-1-phenylbenzimidazole 851230-59-6P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of 1,5,7-trisubstituted benzimidazole derivs. useful as modulator of GABAA receptor)

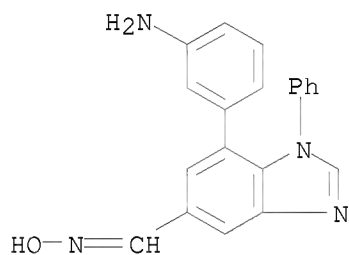
RN 851229-46-4 HCAPLUS

CN 1H-Benzimidazole, 7-(3-chlorophenyl)-1-phenyl-5-(trifluoromethyl)- (CA INDEX NAME)



RN 851229-47-5 HCAPLUS

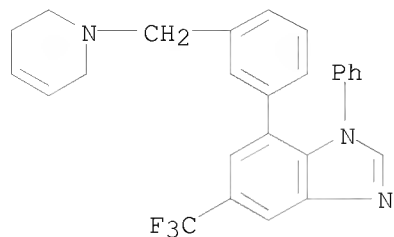
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RN 851229-56-6 HCAPLUS

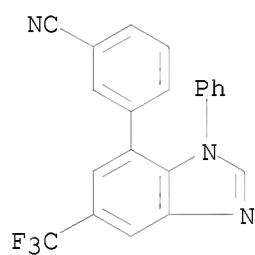
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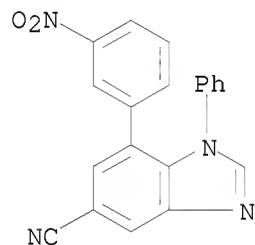
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CN Benzotrifluoride, 3-[1-phenyl-5-(trifluoromethyl)-1H-benzimidazol-7-yl]- (CA INDEX NAME)



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CN 1H-Benzimidazole-5-carbonitrile, 7-(3-nitrophenyl)-1-phenyl- (CA INDEX NAME)



RN 851229-66-8 HCAPLUS

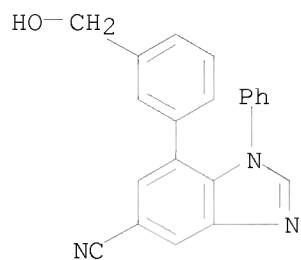
CN 1H-Benzimidazole-5-carbonitrile, 7-[3-(hydroxymethyl)phenyl]-1-phenyl-, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

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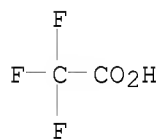
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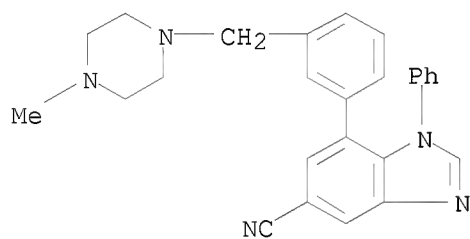
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RN 851229-68-0 HCAPLUS

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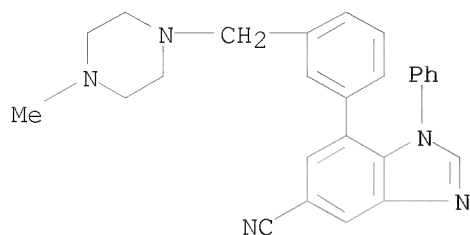
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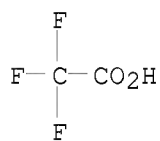
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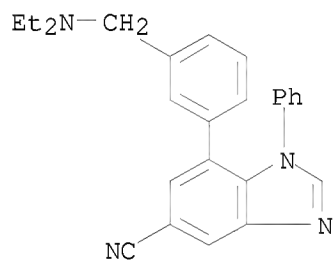
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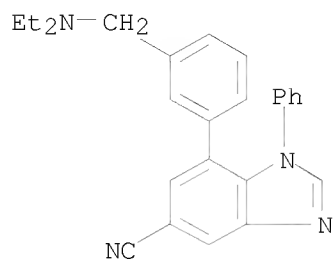
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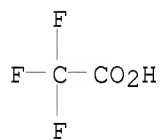
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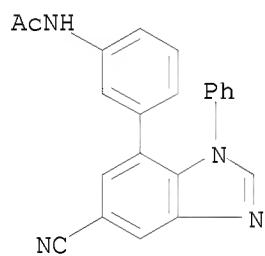
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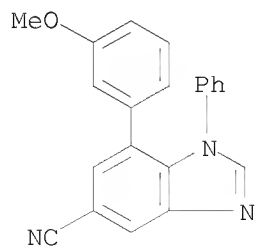
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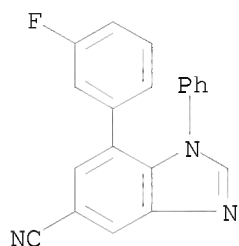
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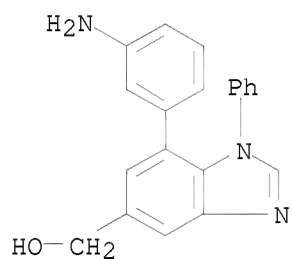


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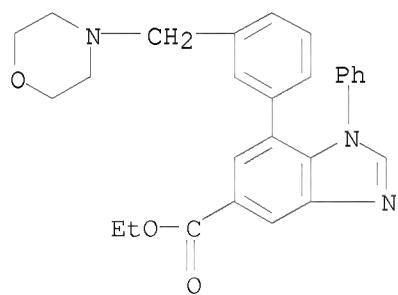
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CN 1H-Benzimidazole-5-carbonitrile, 7-(3-fluorophenyl)-1-phenyl- (CA INDEX NAME)



RN 851229-95-3 HCAPLUS
CN 1H-Benzimidazole-5-methanol, 7-(3-aminophenyl)-1-phenyl- (CA INDEX NAME)



RN 851229-96-4 HCAPLUS
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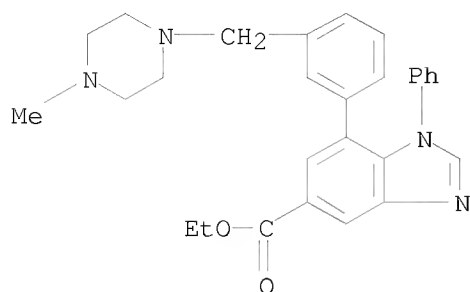


● HCl

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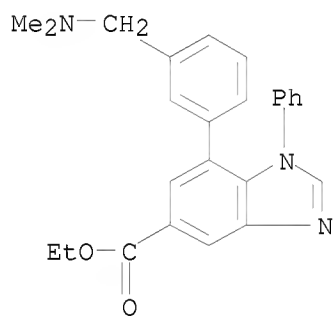
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hydrochloride (1:1) (CA INDEX NAME)

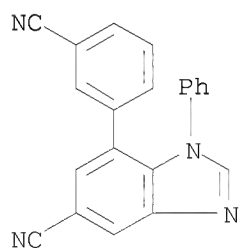


● HCl

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7-[3-[(dimethylamino)methyl]phenyl]-1-phenyl-, ethyl ester (CA INDEX
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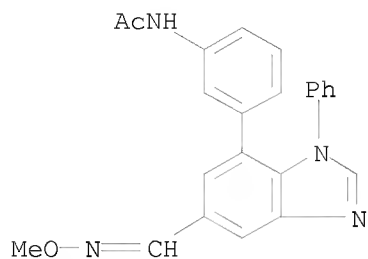


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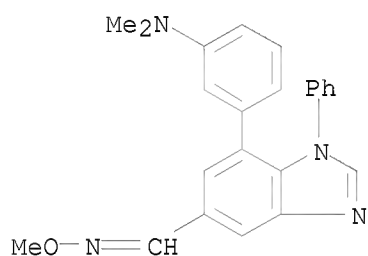
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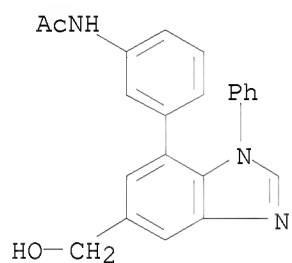
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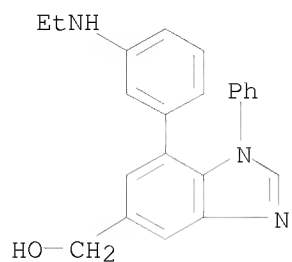
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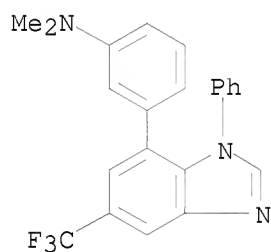
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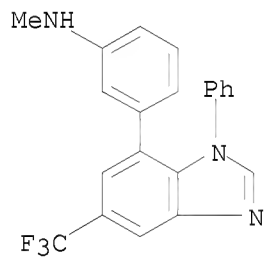
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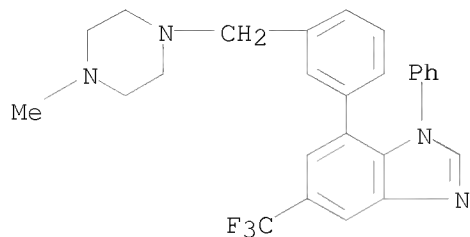


RN 851230-20-1 HCAPLUS
CN Benzenamine, N-methyl-3-[1-phenyl-5-(trifluoromethyl)-1H-benzimidazol-7-yl]- (CA INDEX NAME)



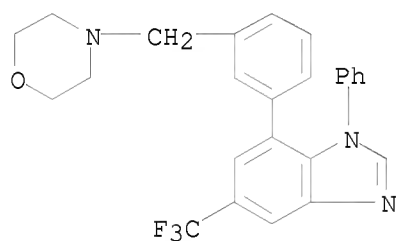
RN 851230-21-2 HCAPLUS
CN 1H-Benzimidazole, 7-[3-[(4-methyl-1-piperazinyl)methyl]phenyl]-1-phenyl-5-(trifluoromethyl)- (CA INDEX NAME)

11575380



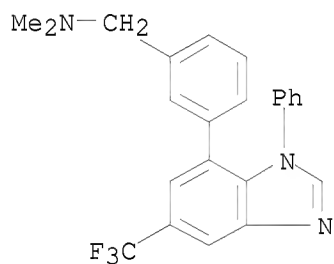
RN 851230-23-4 HCAPLUS

CN 1H-Benzimidazole, 7-[3-(4-morpholinylmethyl)phenyl]-1-phenyl-5-(trifluoromethyl)- (CA INDEX NAME)



RN 851230-24-5 HCAPLUS

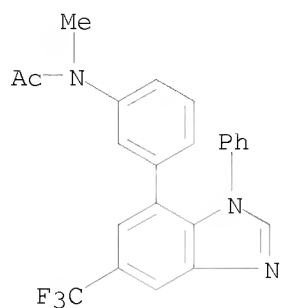
CN Benzenemethanamine, N,N-dimethyl-3-[1-phenyl-5-(trifluoromethyl)-1H-benzimidazol-7-yl]- (CA INDEX NAME)



RN 851230-27-8 HCAPLUS

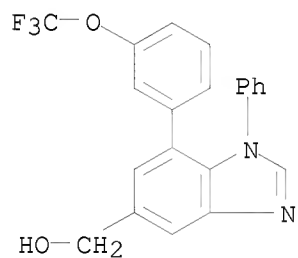
CN Acetamide, N-methyl-N-[3-[1-phenyl-5-(trifluoromethyl)-1H-benzimidazol-7-yl]phenyl]- (CA INDEX NAME)

11575380



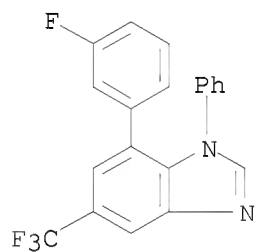
RN 851230-29-0 HCAPLUS

CN 1H-Benzimidazole-5-methanol, 1-phenyl-7-[3-(trifluoromethoxy)phenyl]- (CA INDEX NAME)



RN 851230-35-8 HCAPLUS

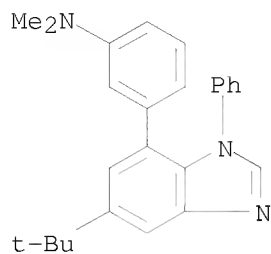
CN 1H-Benzimidazole, 7-(3-fluorophenyl)-1-phenyl-5-(trifluoromethyl)- (CA INDEX NAME)



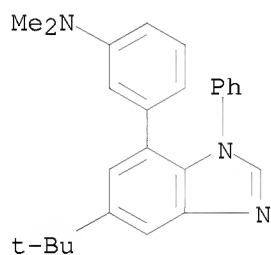
RN 851230-40-5 HCAPLUS

CN Benzenamine, 3-[5-(1,1-dimethylethyl)-1-phenyl-1H-benzimidazol-7-yl]-N,N-dimethyl- (CA INDEX NAME)

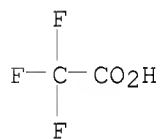
11575380



RN 851230-41-6 HCAPLUS
CN Benzenamine, 3-[5-(1,1-dimethylethyl)-1-phenyl-1H-benzimidazol-7-yl]-N,N-dimethyl-, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)
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CRN 851230-40-5
CMF C25 H27 N3

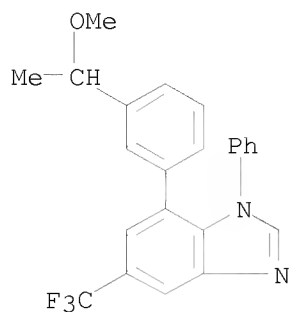


CM 2
CRN 76-05-1
CMF C2 H F3 O2



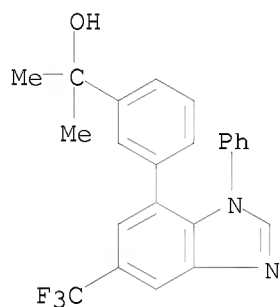
RN 851230-43-8 HCAPLUS
CN 1H-Benzimidazole, 7-[3-(1-methoxyethyl)phenyl]-1-phenyl-5-(trifluoromethyl)- (CA INDEX NAME)

11575380



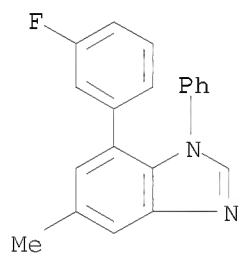
RN 851230-56-3 HCAPLUS

CN Benzenemethanol, α,α -dimethyl-3-[1-phenyl-5-(trifluoromethyl)-1H-benzimidazol-7-yl]- (CA INDEX NAME)



RN 851230-58-5 HCAPLUS

CN 1H-Benzimidazole, 7-(3-fluorophenyl)-5-methyl-1-phenyl- (CA INDEX NAME)



RN 851230-59-6 HCAPLUS

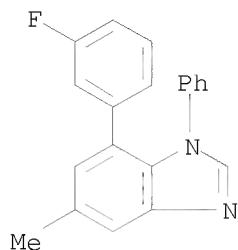
CN 1H-Benzimidazole, 7-(3-fluorophenyl)-5-methyl-1-phenyl-, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

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CRN 851230-58-5

CMF C20 H15 F N2

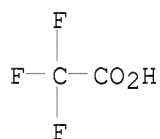
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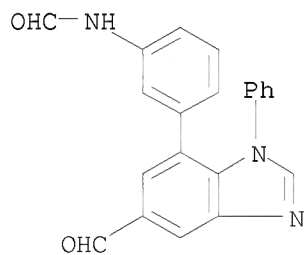
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CMF C2 H F3 O2



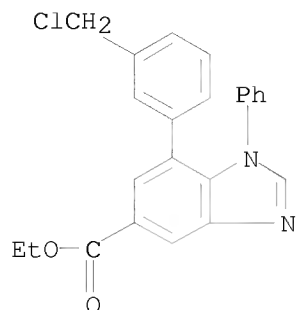
IT 851229-49-7P, 7-[3-(Formylamino)phenyl]-5-formyl-1-phenylbenzimidazole 851229-97-5P, 5-Ethoxycarbonyl-7-[3-(chloromethyl)phenyl]-1-phenylbenzimidazole 851230-22-3P, 7-[3-(Chloromethyl)phenyl]-1-phenyl-5-trifluoromethylbenzimidazole
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of 1,5,7-trisubstituted benzimidazole derivs. useful as modulator of GABAA receptor)
RN 851229-49-7 HCAPLUS
CN Formamide, N-[3-(5-formyl-1-phenyl-1H-benzimidazol-7-yl)phenyl]- (CA INDEX NAME)



RN 851229-97-5 HCAPLUS

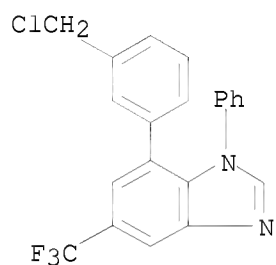
CN 1H-Benzimidazole-5-carboxylic acid, 7-[3-(chloromethyl)phenyl]-1-phenyl-, ethyl ester (CA INDEX NAME)

11575380



RN 851230-22-3 HCAPLUS

CN 1H-Benzimidazole, 7-[3-(chloromethyl)phenyl]-1-phenyl-5-(trifluoromethyl)-
(CA INDEX NAME)



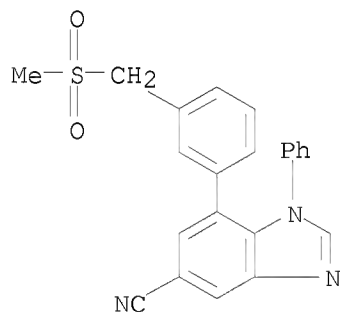
IT 851229-76-0

RL: RCT (Reactant); RACT (Reactant or reagent)

(reactant; preparation of 1,5,7-trisubstituted benzimidazole derivs. useful
as modulator of GABAA receptor)

RN 851229-76-0 HCAPLUS

CN 1H-Benzimidazole-5-carbonitrile, 7-[3-[(methylsulfonyl)methyl]phenyl]-1-
phenyl- (CA INDEX NAME)



REFERENCE COUNT:

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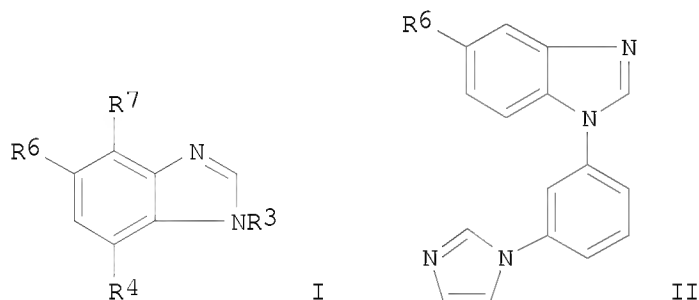
THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1996:580566 HCAPLUS

DOCUMENT NUMBER: 125:300997
 ORIGINAL REFERENCE NO.: 125:56339a, 56342a
 TITLE: Benzimidazole compounds useful as benzodiazepine receptor ligands
 INVENTOR(S): Teuber, Lene; Axelsson, Oskar; Watjen, Frank
 PATENT ASSIGNEE(S): Neurosearch A/s, Den.; Meiji Seika Kaisha, Ltd.
 SOURCE: U.S., 19 pp., Cont.-in-part of U.S. Ser. No. 207,774, abandoned.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5554630	A	19960910	US 1995-410572	19950324
ZA 9402079	A	19941024	ZA 1994-2079	19940324
US 5554632	A	19960910	US 1994-352585	19941209
PRIORITY APPLN. INFO.:			DK 1993-337	A 19930324
			DK 1993-1055	A 19930921
			US 1994-207774	B2 19940308
OTHER SOURCE(S):		MARPAT 125:300997		
GI				



AB The invention discloses title compds. I [R3 = certain (un)substituted (hetero)aryl groups; R4 = H, NH2, NO2, cyano, halo, acylamino, (un)substituted aryl; or R4 forms bridges to aryl ring of R3; R6, R7 = H, halo, NH2, NO2, cyano, acylamino, CF3, (un)substituted aryl; or R6 and R7 form certain optionally heteroatom-containing bridges] and their pharmaceutically acceptable salts, as well as the medical use of a broader class of 1-arylbenzimidazoles, including I. The compds. are useful for the treatment of various central nervous system disorders such as epilepsy and other convulsive disorders, anxiety, sleep disorders, and memory disorders. For example, 2-amino-3'-iodo-4-(trifluoromethyl)diphenylamine (preparation given) underwent cyclocondensation with formic acid at reflux, and coupling with imidazole in the presence of K2CO3 and CuBr at 200°, to give title compound II [R6 = CF3]. In an in-vivo test for inhibition of [3H]-flunitrazepam specific binding to mouse forebrain GABAA receptors, II [R6 = CF3] had an ED50 of 7.3 mg/kg i.p., and II [R6 = Me] had an ED50 of 0.8 mg/kg i.p.

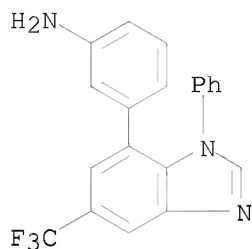
IT 159726-00-8P 159726-01-9P

11575380

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of benzimidazole derivs. as benzodiazepine receptor ligands)

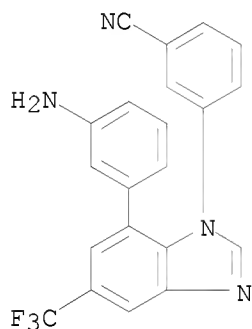
RN 159726-00-8 HCAPLUS

CN Benzenamine, 3-[1-phenyl-5-(trifluoromethyl)-1H-benzimidazol-7-yl]- (CA INDEX NAME)



RN 159726-01-9 HCAPLUS

CN Benzonitrile, 3-[7-(3-aminophenyl)-5-(trifluoromethyl)-1H-benzimidazol-1-yl]- (CA INDEX NAME)



L12 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1995:252476 HCAPLUS

DOCUMENT NUMBER: 122:31527

ORIGINAL REFERENCE NO.: 122:6227a,6230a

TITLE: Preparation of benzimidazole derivatives for the treatment of central nervous system disorders.

INVENTOR(S): Axelsson, Oskar; Teuber, Lene; Watjen, Frank

PATENT ASSIGNEE(S): Neurosearch A/S, Den.; Meiji Seika Kaisha Ltd.

SOURCE: Eur. Pat. Appl., 35 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

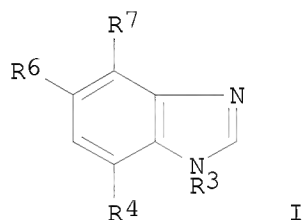
FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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11575380

EP 616807	A1	19940928	EP 1994-610012	19940311
EP 616807	B1	19980708		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
AU 9457521	A	19940929	AU 1994-57521	19940303
AU 675484	B2	19970206		
AT 168007	T	19980715	AT 1994-610012	19940311
ES 2119124	T3	19981001	ES 1994-610012	19940311
CA 2119511	A1	19940925	CA 1994-2119511	19940321
CA 2119511	C	20020716		
NO 9401052	A	19940926	NO 1994-1052	19940323
CN 1099391	A	19950301	CN 1994-103348	19940323
CN 1057088	C	20001004		
FI 9401378	A	19940925	FI 1994-1378	19940324
FI 113651	B1	20040531		
ZA 9402079	A	19941024	ZA 1994-2079	19940324
JP 07002838	A	19950106	JP 1994-78094	19940324
JP 3466265	B2	20031110		
PRIORITY APPLN. INFO.:			DK 1993-337	A 19930324
			DK 1993-1055	A 19930921
OTHER SOURCE(S):			MARPAT 122:31527	
GI				



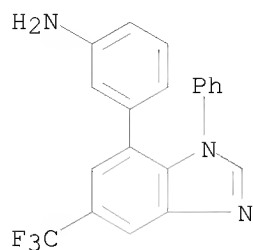
AB Benzimidazole compds. I (R3 = substituted Ph, pyridinyl, etc.; R4 = H, amino, nitro, etc.; R6, R7 = H, halo, cyano, nitro, etc.) were disclosed for the treatment of various central nervous system disorders such as epilepsy and other convulsive disorders, anxiety, sleep disorders and memory disorders.

IT 159726-00-8P 159726-01-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of benzimidazole derivs. GABA receptor antagonists or agonists)

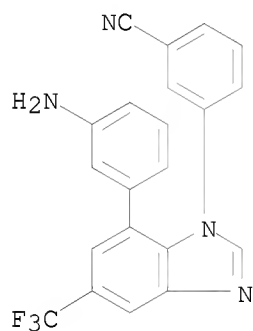
RN 159726-00-8 HCAPLUS

CN Benzenamine, 3-[1-phenyl-5-(trifluoromethyl)-1H-benzimidazol-7-yl]- (CA INDEX NAME)

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RN 159726-01-9 HCAPLUS
CN Benzonitrile, 3-[7-(3-aminophenyl)-5-(trifluoromethyl)-1H-benzimidazol-1-yl]- (CA INDEX NAME)



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COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

19.04

596.01

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-2.40

-7.20

STN INTERNATIONAL LOGOFF AT 14:00:00 ON 19 NOV 2008